Roll	No.	ilidadara. A. sonshais to elor edi sauTotal Page	s:2
(7)		conside 474	120
di in	nsefi	is to word, mercent asset out maley if (0) BT-7/M-24	0
(8)		ATA SCIENCE WITH R PROGRAMMING	
	D	Paper-PC-CS-AIML-401A	
		H-TIMU	20
Time	: Th	ree Hours] And angle and [Maximum Marks	: 75
of gr	1916	(b). Write a R program to get all prime numb	
Note		tempt five questions by selecting at least one que om each Unit.	stion
eauh (8)	NAL	(a) Write at R program to count number of M	().
1800	(a)	Discuss the benefits of data sciences and big	data
.yain	unau	using suitable examples.	(8)
(7)	(b)	Explain the historical evolution of data science	e.(7)
2.	(a)	What do you mean by big data? How it is diffe	erent
risk	` '	from traditional data, som boy ob series (a)	(7)
(8)	(b)	Explain the following data processing operation	
atroit	noile	Data cleaning: volus it noubilities association (d)	1 4
(?)		Data integration.	
		Data transformation.	
enith	osini i	(8) What is the importance notice and rated	(8)
(7)		Jearning.	
any	of ma	(b) Explain the prolitional connect R progr	
3.	(a)	What do you mean by Data Visualization? Dis	cuss
		its various types.	(8)
	(b)	Discuss various tools for Data Visualization.	(7)
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4.	(a)	Discuss the role of statistics & probability in data
HS.	也不能	science. (7)
	(b)	Explain the Bayes theorem, how it is useful in calculating conditional probability. (8)
		A (Mi-Jenja) Miniegas UNIT-III
5.	(a)	Discuss basic data types in R programming. (8)
		Write a R program to get all prime numbers up to
(1)319	e ques	a given number. and snowspaper to the sound a (7)
6.	(a)	Write a R program to count number of NA values
		in a data frame column. (8)
bab (2)	(b)	What do you mean by reserved words? Discuss commonly used reserved words in R programming.
ýΓ).:	יי פופות	out to rectate to desirote de la content (d) (7)
ing:	eTiib e	2. (a) What do you man TINU late? How Ti
7.	(a)	What do you mean by Linear Regression. Explain
311	obaro	its implementation in R programming. (8)
	(b)	Discuss Hidden Markov Model & its applications
		in detail
8.	(a)	What is the importance of CSV files in machine
		learning. (7)
	(b)	Explain the procedure to connect R program to any
25.35.	ad in	external interface. (8)
(2)		its yarious c put.
(V)	no.	(a) Discuss various tools for Data Visualizati